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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,119	06/24/2003	Peter J. Coyle	SAR 14779	2215
7590 08/05/2005			EXAMINER	
Moser, Patterson & Sheridan, LLP			ROGERS, DAVID A	
Suite 100 595 Shrewsbury Avenue			ART UNIT	PAPER NUMBER
Shrewsbury, NJ 07702			2856	
			DATE MAILED: 08/05/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/603,119	COYLE ET AL.
Office Action Summary	Examiner	Art Unit
	David A. Rogers	2856
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim of within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
 1) ⊠ Responsive to communication(s) filed on 23 July 2a) ☐ This action is FINAL. 2b) ⊠ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under Expression in the practice of th	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ⊠ Claim(s) <u>1-46</u> is/are pending in the application. 4a) Of the above claim(s) <u>2-8,18-23,25,26,28-3</u> 5) ☐ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,9-12,24,27 and 31</u> is/are rejected. 7) ⊠ Claim(s) <u>13-17</u> is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	<u>80 and 32-46</u> is/are withdrawn fron	m consideration.
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

DETAILED ACTION

Election/Restrictions

1. Claim 14 is hereby rejoined in view of the indicated allowability of dependent claim 13.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 3. Claims 1, 9-12, 31 are rejected under 35 U.S.C. 102(a) as being clearly anticipated by United States Patent Application Publication 2004/0107782 to Bradley *et al.*

Bradley *et al.* discloses an apparatus for collecting airborne particulates comprising a separation section (reference item 58) in the form of a cap, a capture section (reference item 46) containing a liquid, and a hydrophobic membrane filter (reference item 24) that separates the separation section from the capture section.

The capture section has at least one channel disposed adjacent the separation section, i.e., the conduit in figure 5 that is immediately below the hydrophobic membrane. This conduit is in the capture section and can, therefore, be filled with liquid. Furthermore, the applicant's response to the

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previous office action states that devices for use in a microfluidic environment have dimensions "ranging from millimeters down to micrometers". As seen in the provisional application of Bradely *et al.*¹ the above mentioned channel has a nominal diameter of 0.25 inches, which is about 6.35 mm. This meets the applicant's supplied definition of "millimeters".

At the lower end of the capture chamber is a drain (reference item 50). This drain is inherently adapted to allow the fluid to be transported to an analysis device.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 24 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bradley *et al.* in view of United States Patent 6,520,034 to Masquelier *et al.*

Bradley *et al.* teaches the claimed apparatus except for the express recitation of an analyzer coupled to the sampler.

¹ The provisional application of Bradley *et al.* is 60/360,400 filed 27 February 2002. This application is a copy of the "Final Research Report - SBIR A002-0576 Phase I", Rocky Mountain Research Labs, Inc., 28 September 2001.

Masquelier *et al.* teaches a particle collection apparatus comprising a fluid reservoir (reference item 23) for trapping particulates. The reservoir has a lower channel (reference item 24) that can be coupled to an analysis device (reference item 29).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Bradley *et al.* with the teachings of Masquelier *et al.* in order to provide an analyzer to a collection apparatus in order to quickly determine the presence of dangerous particles in the air.

Allowable Subject Matter

6. Claims 13-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David A. Rogers whose telephone number is (571) 272-2205. The examiner can normally be reached on Monday - Friday (0730 - 1600).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron E. Williams can be reached on (571) 272-2208. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

dar 04 August 2005

HEZRON WILLIAMS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800